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| FORM PTO-1449 INFORMATION DISCLOSURE STATEMENT PATENT AND TRADEMARK OFFICE | | ATTY. DOCKET NO. 1900.043002/LBB/SJE | | APPLICATION NO. 10/766,528 | |
| | | FIRST NAMED INVENTOR SALZWEDEL et al. | | | |
| | | FILING DATE January 29, 2004 | | ART UNIT 1646 | |
| | | U.S. PATENT DOCUMENTS | | | |

| EXAMINER INITIAL | | DOCUMENT NUMBER | DATE | NAME | CLASS | SUB-CLASS | FILING DATE |
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| LH | AA1 | 4,683,195 | 07/28/1987 | Mullis et al. | | | 02/07/1986 |
| | AB1 | 4,683,202 | 07/28/1987 | Mullis, K.B. | | | 10/25/1985 |
| | AC1 | 5,468,888 | 11/21/1995 | Bouboutou et al. | | | 05/12/1994 |
| | AD1 | 5,679,828 | 10/21/1997 | Lee et al. | | | 06/05/1995 |
| ↓ | AE1 | 6,172,110 B1 | 01/09/2001 | Lee et al. | | | 03/02/1999 |
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| LH | AL1 | JP 1-143832 | 06/06/1989 | Japan | | | Yes x No |
| LH | AM1 | WO 02/26761 A1 | 04/04/2002 | WIPO | | | Yes No |
| | AN | | | | | | Yes No |
| | AO | | | | | | Yes No |
| | AP | | | | | | Yes No |

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

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| LH | AR | 1 | Altschul, S.F., et al., "Basic Local Alignment Search Tool," <i>J. Mol. Biol.</i> 215:403-410, Academic Press Limited (1990). |
| | AS | 1 | Brutlag, D.L., et al., "Improved sensitivity of biological sequence database searches," <i>Comput. Appl. Biosci.</i> 6:237-245, Oxford University Press (1990). |
| ↓ | AT | 1 | Cleland, J.L., et al., "The Development of Stable Protein Formulations: A Close Look at Protein Aggregation, Deamidation, and Oxidation," <i>Crit. Rev. Ther. Drug Carrier Syst.</i> 10:307-377, CRC Press, Inc. (1993). |

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| LH | AR | 2 | Dalgeish, A.G., <i>et al.</i> , "The CD4 (T4) antigen is an essential component of the receptor for the AIDS retrovirus," <i>Nature</i> 312:763-767, Macmillan Journals Ltd. (1984). |
| LH | AS | 2 | Demirov, D.G., <i>et al.</i> , "The Late Domain of Human Immunodeficiency Virus Type 1 p6 Promotes Virus Release in a Cell Type-Dependent Manner," <i>J. Virol.</i> 76:105-117, American Society for Microbiology (January 2002). |
| LH | AT | 2 | Devereux, J., <i>et al.</i> , "A comprehensive set of sequence analysis programs for the VAX," <i>Nucl. Acids Res.</i> 12:387-395, IRL Press Limited (1984). |

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| LH | AR | 3 | Erickson-Viitanen, S., et al., "Cleavage of HIV-1 gag Polyprotein Synthesized In Vitro: Sequential Cleavage by the Viral Protease," <i>AIDS Res. Hum. Retroviruses</i> 5:577-591, Mary Ann Liebert, Inc. (1989). |
| LH | AS | 3 | Fujioka, T., and Kashiwada, Y., "Anti-AIDS Agents, 11. Betulinic Acid and Platanic Acid as Anti-HIV Principles from <i>Syzygium claviflorum</i> , and the Anti-HIV Activity of Structurally Related Triterpenoids," <i>J. Nat. Prod.</i> 57:243-247, American Society of Pharmacognosy and the Lloyd Library and Museum (1994). |
| LH | AT | 3 | Garrus, J.E., et al., "Tsg101 and the Vacuolar Protein Sorting Pathway Are Essential for HIV-1 Budding," <i>Cell</i> 107:55-65, Cell Press (2001). |

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| LH | AR | 4 | Haan, K., "HIV gags on PA-457," <i>BioCentury, The Bernstein Report on BioBusiness</i> : Page A12 of 22, Biocentury Publications, Inc. (October 27, 2003 issue). | | | | |
| LH | AS | 4 | Hopp, T.P., <i>et al.</i> , "A Short Polypeptide Marker Sequence Useful for Recombinant Protein Identification and Purification," <i>Biotechnology</i> 6:1204-1210, Nature Publishing Co. (1988). | | | | |
| LH | AT | 4 | Kanamoto, T., <i>et al.</i> , "Anti-Human Immunodeficiency Virus Activity of YK-FH312 (a Betulinic Acid Derivative), a Novel Compound Blocking Viral Maturation," <i>Antimicrob. Agents Chemother.</i> 45:1225-1230, American Society for Microbiology (2001). | | | | |
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| LH | AR | 5 | Kashiwada, Y., et al., "Betulinic Acid and Dihydrobetulinic Acid Derivatives as Potent Anti-HIV Agents," <i>J. Med. Chem.</i> 39:1016-1017, American Chemical Society (1996). | | | | |
| LH | AS | 5 | Kashiwada, Y., et al., "Anti-AIDS Agents. 30. Anti-HIV Activity of Oleanolic Acid, Pomolic Acid, and Structurally Related Triterpenoids," <i>J. Nat. Prod.</i> 61:1090-1095, American Chemical Society and American Society of Pharmacognosy (1998). | | | | |
| LH | AT | 5 | Kashiwada, Y., et al., "Anti-AIDS Agents 38. Anti-HIV Activity of 3-O-Acyl Ursolic Acid Derivatives," <i>J. Nat. Prod.</i> 63:1619-1622, American Chemical Society and American Society of Pharmacognosy (2000). | | | | |

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| LH | AR | 6 | Kashiwada, Y., <i>et al.</i> , "Synthesis and Anti-HIV Activity of 3-Alkylamido-3-deoxy-betulinic Acid Derivatives," <i>Chem. Pharm. Bull.</i> 48:1387-1390, Pharmaceutical Society of Japan (2000). |
| LH | AS | 6 | Kohl, N.E., <i>et al.</i> , "Active human immunodeficiency virus protease is required for viral infectivity," <i>Proc. Natl. Acad. Sci. USA</i> 85:4686-4690, National Academy of Sciences (1988). |
| LH | AT | 6 | Li, F., <i>et al.</i> , "PA-457: A potent HIV inhibitor that disrupts core condensation by targeting a late step in Gag processing," <i>Proc. Natl. Acad. Sci. USA</i> 100:13555-13560, National Academy of Sciences (November 2003). |

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| LH | AR | Z | Liang, C., <i>et al.</i> , "Deletion Mutagenesis within the Dimerization Initiation Site of Human Immunodeficiency Virus Type 1 Results in Delayed Processing of the p2 Peptide from Precursor Proteins," <i>J. Virol.</i> 73:6147-6151, American Society for Microbiology (1999). |
| LH | AS | Z | Liang, C., <i>et al.</i> , "Characterization of a Putative α -Helix across the Capsid-SP1 Boundary That Is Critical for the Multimerization of Human Immunodeficiency Virus Type 1 Gag," <i>J. Virol.</i> 76:11729-11737, American Society for Microbiology (November 2002). |
| LH | AT | Z | Pettit, S.C., <i>et al.</i> , "The p2 Domain of Human Immunodeficiency Virus Type 1 Gag Regulates Sequential Proteolytic Processing and Is Required To Produce Fully Infectious Virions," <i>J. Virol.</i> 68:8017-8027, American Society for Microbiology (1994). |

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| LH | AR | 8 | Pettit, S.C., et al., "Replacement of the P1 Amino Acid of Human Immunodeficiency Virus Type 1 Gag Processing Sites Can Inhibit or Enhance the Rate of Cleavage by the Viral Protease," <i>J. Virol.</i> 76:10226-10233, American Society for Microbiology (October 2002). |
| LH | AS | 8 | Pinckard, R.N., et al., "Factors Influencing the Immune Response. I. Effects of the Physical State of the Antigen and of Lymphoreticular Cell Proliferation on the Response to Intravenous Injection of Bovine Serum Albumin in Rabbits," <i>Clin. Exp. Immunol.</i> 2:331-341, Blackwell Scientific Publications (1967). |
| LH | AT | 8 | Pokrovskii, A.G., et al., "Synthesis of derivatives of plant triterpenes and study of their antiviral and immunostimulating activity," <i>Khimiya v Interesakh Ustoichivogo Razvitiya</i> 9:485-491, Siberian Branch of the Russian Academy of Sciences (2001). |

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| LH | AR | 9 | Robbins, D.C., et al., "Antibodies to Covalent Aggregates of Insulin in Blood of Insulin-Using Diabetic Patients," <i>Diabetes</i> 36:838-841, American Diabetes Association (1987). |
| LH | AS | 9 | Sakalian, M., et al., "The Mason-Pfizer Monkey Virus Internal Scaffold Domain Enables In Vitro Assembly of Human Immunodeficiency Virus Type 1 Gag," <i>J. Virol.</i> 76:10811-10820, American Society for Microbiology (November 2002). |
| LH | AT | 9 | Sandefur, S., et al., "The I Domain Is Required for Efficient Plasma Membrane Binding of Human Immunodeficiency Virus Type 1 Pr55 ^{Gag} ," <i>J. Virol.</i> 72:2723-2732, American Society for Microbiology (1998). |

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| LH | AR | 10 | Sidhu, M.K., et al., "Distinction Between HIV-1 and HIV-2 Nucleotide Sequences by PCR and Restriction Enzyme Analysis," <i>Biotechniques</i> 18:20-24, Eaton Publishing Co. (1995). |
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| | | ATTY. DOCKET NO. 1900.0430002/LBB/SJE | APPLICATION NO. 10/766,528 |
| FORM PTO-1449 <u>INFORMATION DISCLOSURE STATEMENT</u> | | FIRST NAMED INVENTOR SALZWEDEL et al. | |
| | | FILING DATE January 29, 2004 | ART UNIT 1646 |

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| EXAMINER INITIAL | | DOCUMENT NUMBER | DATE | NAME | CLASS | SUB-CLASS | FILING DATE |
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| | AL | | | | | | Yes No |
| | AM | | | | | | Yes No |
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| | AO | | | | | | Yes No |
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OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

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| LH | AR | <u>12</u> | Database CAPLUS, Accession Number 2001:541179, English language abstract for Pokrovskii, A.G., <i>et al.</i> , (Document AT8), published by The American Chemical Society on STN. | | | | |
| LH | AS | <u>12</u> | Pending Non-Provisional United States Patent Application No. 10/670,797, Allaway <i>et al.</i> , filed September 26, 2003 (NOT PUBLISHED). | | | | |
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